ENVIRONMENTAL CHEMISTS

Date of Report: 03/06/03 Date Received: 02/13/03

Project: Metro Self Monitor, PO#M69442, F&BI 302097

Date Extracted: 02/25/03 Date Analyzed: 02/26/03

RESULTS FROM THE ANALYSIS OF THE WATER SAMPLE FOR TOTAL METALS BY INDUCTIVELY COUPLED PLASMA (ICP) (METHOD 6010)

Results Reported as mg/L (ppm)

Sample ID	Chromium Cor	oper <u>Nickel</u>	<u>Zinc</u>
Laboratory ID			
M69442	0.76 0.	.95 0.91	0.13
302097-01			
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Method Blank	<0.05 <0.	.05 <0.05	< 0.05

ENVIRONMENTAL CHEMISTS

Date of Report: 03/06/03 Date Received: 02/13/03

Project: Metro Self Monitor, PO#M69442, F&BI 302097

QUALITY ASSURANCE RESULTS FROM TOTAL METALS BY INDUCTIVELY COUPLED PLASMA (ICP) (METHOD 6010)

Laboratory Code: 302048-01 (Duplicate)

		in a state of		Relative	
	Reporting	Sample	Duplicat	e Percent	Acceptance
Analyte	Units	Result	Result	Difference	Criteria
Chromium	mg/L (ppm)	0.41	0.46	11	0-20
Copper	mg/L (ppm)	0.36	0.34	6	0-20
Nickel	mg/L (ppm)	0.34	0.32	6	0-20
Zinc	mg/L (ppm)	0.13	0.21	a	0-20

Laboratory Code: 302048-01 (Matrix Spike)

	Reporting	Spike	Sample	% Recov	ery Acceptance
Analyte	Units	Level	Result	MS	Criteria
Chromium	mg/L (ppm)	2	0.41	94	80-120
Copper	mg/L (ppm)	2	0.36	96	80-120
Nickel	mg/L (ppm)	4	0.34	93	80-120
Zinc	mg/L (ppm)	2	0.13	92	80-120

Laboratory Code: Laboratory Control Sample

		Reporting	Spike	%	Recove	ery %	Recove	ery A	cceptano	e RP	D
Analyte	4 S S S S S S S S S S S S S S S S S S S	Units	Leve	l - ' ' '	LCS	Mary Pate	LCSD	, Year,	Criteria	(Limit	t 20)
Chromium		mg/L (ppm)	2		99		100		80-120	1	
Copper		mg/L (ppm)	2		100		101		80-120	1	
Nickel		mg/L (ppm)	4	4.75	98		99		80-120	1	
Zinc		mg/L (ppm)	2		100	MON.	102		80-120	2	

a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D. Charlene Morrow, M.S. Yelena Aravkina, M.S. Bradley T. Benson, B.S. Kurt Johnson, B.S. 3012 16th Avenue West Seattle, WA 98119-2029 TEL: (206) 285-8282 FAX: (206) 283-5044 e-mail: fbi@isomedia.com

March 6, 2003

INVOICE #03ACU0306-2

Accounts Payable Alaskan Copper Works 628 South Hanford Seattle, WA 98134

RE: Project Metro Self Monitor, PO#M69442, F&BI 302097 - Results of testing requested by Gerry Thompson for material submitted on February 13, 2003.

1 sample analyzed for Total Chromium, Copper, Nickel and Zinc)	
by Method 6010B @ \$80 per sample		\$ 80.00
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Amount Due		\$ 80.00

FEDERAL TAX ID #(b) (6)

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Address 628 S.	Handerd	20		ME	METRO SECTION. For M6947 Rush charges authorized by:														
City, State, ZIP_SESH	le us	78/3		REMA	REMARKS SAMPLE DISPOSAL Dispose after 30 days														
Phone # 26-382-8079		-382-43	ંગ	☐ Return samples ☐ Will call with instructions															
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Fax (206) 283-5044 FORMS\COC\COC.DOC

Ph. (206) 285-8282

Received by:

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D. Charlene Morrow, M.S. Yelena Aravkina, M.S. Bradley T. Benson, B.S. Kurt Johnson, B.S. 3012 16th Avenue West Seattle, WA 98119-2029 TEL: (206) 285-8282 FAX: (206) 283-5044 e-mail: fbi@isomedia.com

March 6, 2003

Gerry Thompson, Project Manager Alaskan Copper Works 628 South Hanford Seattle, WA 98134

Dear Mr. Thompson:

Included are the results from the testing of material submitted on February 13, 2003 from the Metro Self Monitor, PO#M69442, F&BI 302097 project. There are 2 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.

Michael Erdahl Project Manager

Enclosures ACU0306R.DOC